



50A5

50A5 BEAM POWER AMPLIFIER

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 50 ac or dc volts
Current. 0.15 amp

Mechanical:

Mounting Position. Any
Maximum Overall Length. 3-5/32"
Maximum Seated Length. 2-5/8"
Maximum Diameter. 1-3/16"
Bulb T-9
Base Lock-in 8-Pin
Basing Designation for BOTTOM VIEW 6AA

Pin 1 - Heater

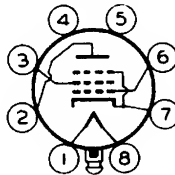
Pin 2 - Plate

Pin 3 - Grid No.2

Pin 4 - No

Connection

Pin 5 - No Connection



Pin 6 - Grid No.1

Pin 7 - Cathode,
Grid No.3

Pin 8 - Heater

Plug - Base
Shell

AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 200 max. volts
GRID-No.2 (SCREEN) VOLTAGE 117 max. volts
PLATE DISSIPATION. 10 max. watts
GRID-No.2 DISSIPATION. 1.25 max. watts
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode. 90 max. volts
Heater positive with respect to cathode. 90 max. volts

Typical Operation and Characteristics:

Plate Voltage	110	200	volts
Grid-No.2 Voltage.	110	110	volts
Grid-No.1 Voltage.	-7.5	-8	volts
Peak A-F Grid No.1 Voltage	7.5	8	volts
Zero-Signal Plate Current.	49	50	ma
Max.-Signal Plate Current.	50	55	ma
Zero-Signal Grid-No.2 Current.	4	1.5	ma
Max.-Signal Grid-No.2 Current.	8.5	6.0	ma
Plate Resistance (Approx.)	13000	35000	ohms
Transconductance	8000	8250	μmhos
Load Resistance.	2000	3000	ohms
Total Harmonic Distortion.	10	10	%
Max.-Sig. Power Output	2.1	4.3	watts

Maximum Circuit Values (for maximum rated conditions):

Grid-No.1-Circuit Res.	{ fixed bias	0.1	. . megohm
	{ cathode bias	0.5	. . megohm

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TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA